

课程详述

COURSE SPECIFICATION

以下课程信息可能根据实际授课需要或在课程优化之后产生变动。如对课程有任何疑问，请联系授课教师。

The course information as follows may be subject to change, either during the session because of unforeseen circumstances, or following review of the course at the end of the session. Queries about the course should be directed to the course instructor.

1.	课程名称 Course Title	工程英语 English for Engineering
2.	授课院系 Originating Department	语言中心 Center for Language Education
3.	课程编号 Course Code	CLE010
4.	课程学分 Credit Value	2
5.	课程类别 Course Type	通识选修课程 General Education (GE) Elective Courses
6.	授课学期 Semester	春季 Spring / 夏季 Summer
7.	授课语言 Teaching Language	英文 English
8.	授课教师、所属学系、联系方式 (如属团队授课, 请列明其他授课教师) Instructor(s), Affiliation & Contact (For team teaching, please list all instructors)	Yuxiu Hu Center for Language Education huyx@sustech.edu.cn
9.	实验员/助教、所属学系、联系方式 Tutor/TA(s), Contact	无 NA
10.	选课人数限额(可不填) Maximum Enrolment (Optional)	

11. 授课方式 Delivery Method	讲授 Lectures	习题/辅导/讨论 Tutorials	实验/实习 Lab/Practical	其它(请具体注明) Other (Please specify)	总学时 Total
学时数 Credit Hours	32	0	0	0	32
12. 先修课程、其它学习要求 Pre-requisites or Other Academic Requirements	CLE030 EAP				
13. 后续课程、其它学习规划 Courses for which this course is a pre-requisite	N/A				
14. 其它要求修读本课程的学系 Cross-listing Dept.	N/A				

教学大纲及教学日历 SYLLABUS

15. 教学目标 Course Objectives

The course will help students to:

- **be familiar with the terms that are essential in the field of engineering** – for example, all engineers need to discuss dimensions and tolerances, know the names of common materials, and describe how components are fitted and fixed together.
- **learn the language for discussing and applying key engineering concepts** – for example, stress and strain, work and power, and fluid dynamics.
- **improve their listening in technical discussions and lectures** – on the audio students will hear people in the kinds of situation of problem-solving discussions.
- **build their vocabulary presented and practiced in professional contexts**

16. 预达学习成果 Learning Outcomes

After successful completion of the course, students will be able to:

- apply listening strategies to promote better understanding of technical discussions and lectures
- use the terms and the language in the field of engineering to enhance their scientific communication
- critique and synthesize sources in scientific and technical articles and reports, and
- report scientific information in speaking and writing

17. 课程内容及教学日历 (如授课语言以英文为主, 则课程内容介绍可以用英文; 如团队教学或模块教学, 教学日历须注明主讲人)

Course Contents (in Parts/Chapters/Sections/Weeks. Please notify name of instructor for course section(s), if this is a team teaching or module course.)



Week	Topic	Skills	Language	Application/Problem Solving
1	- Icebreaker - Course Introduction			
2	Technology in use	Describing technical functions and applications	Words stemming from <i>use, allow, enable, permit, ensure, prevent</i>	GPS applications
3	Listening skill	How to have successful listening	- Speech segmentation - Implications & inferences	
4	Technology in use	Explaining how technology works	Verbs to describe movement	Space elevator
5	Technology in use	Emphasizing technical advantages	- Verbs and adjectives to describe advantages - Adverbs for adding emphasis	Otis system
6	Technology in use	Simplifying and illustrating technical explanations	Phrases for simplifying and rephrasing	Skyscraper
7	Components and assemblies	- Describing component shapes and features - Explaining and assessing manufacturing techniques	- Shapes and 3D features - Words to describe machining - Phrases for describing suitability	Watches
8	-Components and assemblies - Midterm review	Describing positions of assembled components	- Verbs and nouns to describe joints and fixings - Prepositions of position	
9	Breaking point I	Describing types of technical problem	Verbs and adjectives for describing technical problems	Le Mans 24 hours
10	Breaking point II	Assessing and interpreting faults	Words for describing faults and their severity.	Cluster balloon
11	Breaking point III	- Describing the causes of faults	- Phrases for describing certainty/uncertainty - Adjectives with prefixes	Airbus

		- Discussing repairs and maintenance	for describing technical problems - Verbs for describing repairs and maintenance	
12	Technical development	- Discussing technical requirement - Suggesting ideas and solutions	- Phrases for referring to issues - Phrases for referring to quantity and extent - Phrases for suggesting solutions and alternatives	Placing a huge statue
13	Technical development	Assessing feasibility	Words to describe feasibility	Overhead cranes
14	Theory and practice	Comparing results with expectations	- Phrases for comparing expectations and results	Water rockets
15	Pushing the boundaries	- Describing capabilities and limitations - - Group presentation on the topic selected	Words to describe capabilities and limits	Rocket sled
16	- Group presentation on the topic selected - Final Review			

18. 教材及其它参考资料 Textbook and Supplementary Readings

<p><u>Textbook:</u> Ibbotson, M. (2009). <i>Cambridge English for Engineering</i>. Cambridge: Cambridge University Press.</p> <p><u>Recommended Readings:</u></p> <ul style="list-style-type: none"> • Ingre, D. (2003). <i>Technical Writing: Essentials for the successful professional</i>. Mason, OH: Thomson. • Johnson, S. & Scott, J. (2009). <i>Study and Communication Skills for the Biosciences</i>. Oxford: Oxford University Press. • Mulvaney, M. K. & Jolliffe, D. A. (2005). <i>Academic Writing: Genres, samples, and resources</i>. New York: Pearson Longman. • Rickett, N. A., Laster, A.A. & Staples, K.E. (2001). <i>Technical English: Writing, reading, and speaking</i> (8th ed.). New York, NY: Longman. • VanAlstyne, J.S. & Tritt, M. D. (2002). <i>Professional and technical writing strategies: Communicating in technology and science</i>. Upper Saddle River, NJ: Prentice Hall.
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课程评估 ASSESSMENT

19. 评估形式 Type of Assessment	评估时间 Time	占考试总成绩百分比 % of final score	违纪处罚 Penalty	备注 Notes
出勤 Attendance	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

课堂表现 Class Performance		20%		
小测验 Quiz		10%		
课程项目 Projects		30%		
平时作业 Assignments		10%		
期中考试 Mid-Term Test				
期末考试 Final Exam				
期末报告 Final Presentation		30%		
其它（可根据需要 改写以上评估方 式） Others (The above may be modified as necessary)				

20. 记分方式 **GRADING SYSTEM**

- A. 十三级等级制 **Letter Grading**
 B. 二级记分制（通过/不通过） **Pass/Fail Grading**

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课程审批 REVIEW AND APPROVAL

21. 本课程设置已经过以下责任人/委员会审议通过
This Course has been approved by the following person or committee of authority

Center for Language Education